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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/632,741	08/01/2003	John Frederick Ackerman	RD-26408-5	3858

7590 07/02/2008
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St. Louis, MO 63102

EXAMINER

PERRIN, JOSEPH L

ART UNIT	PAPER NUMBER
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1792

MAIL DATE	DELIVERY MODE
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07/02/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/632,741	Applicant(s) ACKERMAN ET AL.	
	Examiner Joseph L. Perrin, Ph.D.	Art Unit 1792	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 June 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 18-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 18-23 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 19 June 2008 has been entered.

Response to Arguments

2. Applicant's cancellation of the rejected claims has rendered the rejections to the claims moot. Applicant's arguments to newly introduced claims 18-23 are not persuasive and the reasons for the new rejections are detailed in the forth coming rejections of the newly introduced claims.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 20-23 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter

which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. In claim 20, the recitation of a controller operating the washing system is considered new matter as such recitation is not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventors, at the time the application was filed, had possession of the claimed invention.

Claim Rejections - 35 USC § 102

5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

6. Claims 20-23 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 4,059,123 to BARTOS (previously cited). Re claims 20 & 22, BARTOS discloses the claimed structure of a washing system (10) for a gas turbine engine including a pump (compressor 14), ring manifold (96) having plural circumferentially-spaced spray nozzles oriented to discharge a liquid radially inward (i.e. horizontally) into the turbine engine to be treated, and a controller (26) configured to inject plural liquids from fluid reservoirs (18/20/22/24) (see Figures 1, 2, 6, and relative associated text). The examiner notes that for claim 22, the action of the liquid (i.e. one that "coats") is intended use and does not serve to structurally distinguish as generally all liquids are capable of coating to some degree. Re claim 21, BARTOS discloses controlling the sequence of the liquid treatments (col. 1, lines 39-41 & 59-62). Re claim 22, BARTOS

further discloses the use of a starter motor to rotate the engine while spraying a treatment liquid (col. 1, lines 27-28 & claim 1). Accordingly, recitation of BARTOS reads on applicant's invention as claimed.

7. Claims 18-20 are rejected under 35 U.S.C. 102(b) as being anticipated by BARTOS, or in the alternative as being obvious over BARTOS in view of BECK or U.S. Patent No. 5,273,395 to MCDERMOTT. BARTOS discloses the claimed combination of a gas turbine engine and a washing system for a gas turbine engine (10) comprising a pump (14) to pump liquids through a ring manifold (96) having plural circumferentially-spaced spray nozzles oriented to discharge a liquid radially inward (i.e. horizontally) into the turbine engine to be treated, and a controller (26) configured to inject plural liquids from fluid reservoirs (18/20/22/24) (see Figures 1, 2, 6, and relative associated text). Re claim 19, BARTOS further discloses the use of a starter motor to rotate the engine while spraying a treatment liquid (col. 1, lines 27-28 & claim 1). BARTOS discloses using the claimed washing system in combination with a gas turbine engine and the position is taken that one having ordinary skill in the art would reasonably interpret the disclosed gas turbine engine as a conventional gas turbine engine with a compressor, either inherently or implicitly, particularly since it is common knowledge that compressors are part of a . However, even if assuming *arguendo*, one were to construe the gas turbine compressor of BARTOS as not having a compressor, both BECK and MCDERMOTT are directed to cleaning a gas turbine engine with a compressor.

Because the gas turbine engines of BARTOS, BECK and MCDERMOTT are structural equivalents readily recognized by one having ordinary skill in the art, the position is taken that simply substituting the known gas turbine engine of BARTOS for the structural equivalent gas turbine engines of BECK or MCDERMOTT would have yielded the same predictable result of cleaning/treating a gas turbine engine with compressor using a spray ring manifold.

15. Claim 18 is rejected under 35 U.S.C. 102(b) as being anticipated by BECK. BECK discloses a gas turbine engine with compressor combined with a plurality of spray nozzles (11) on ring manifold (13) which are circumferentially spaced around an opening of turbine (1) and configured to spray a first fluid and second fluid radially inward via fluid lines (19/20) (see entire document, for instance, Figures 1-2 and relative associated text).

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph L. Perrin, Ph.D. whose telephone number is (571)272-1305. The examiner can normally be reached on M-F 8:00-4:30.

9. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael E. Barr can be reached on (571)272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1792

10. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Joseph L. Perrin/
Joseph L. Perrin, Ph.D.
Primary Examiner
Art Unit 1792

JLP